

CLAIMS

We Claim:

1 1. A system for communications between computers in a CIM and DMI
2 network, comprising:

3 a proxy CIMOM in communications with a plurality of CIM client applications;

4 a DMI service provider in communications with a plurality of DMI component
5 instrumentation;

6 a CIM to DMI provider connected to the proxy CIMOM and the DMI service
7 provider to register the plurality of CIM client applications and the plurality of DMI
8 component instrumentation, receive events from the DMI service provider, receive
9 interrupts from the proxy CIMOM, receive information from both the proxy CIMOM and
10 the DMI service provider and translate all said interrupts, said events, and said
11 information into a format suitable for an intended recipient, wherein said intended
12 recipient may be either the proxy of CIM client applications or the plurality of DMI
13 component instrumentation.

1 2. The system recited in claim 1, wherein the CIM to DMI provider further
2 comprises:

3 a DMI events and CIM requests processing module to register the plurality of
4 CIM client applications and the plurality of DMI component instrumentation, receive
5 events from the DMI service provider, receive interrupts from the proxy CIMOM,
6 receive information from both the proxy CIMOM and the DMI service provider.

1 **3.** The system recited in claim 2, wherein the CIM to DMI provider further
2 comprises:

3 a CIM to DMI translation module connected to the DMI events and CIM
4 requesting module to translate DMI requests and messages to CIM objects and to
5 translate CIM objects to DMI requests and messages.

1 **4.** The system recited in claim 3, wherein the CIM to DMI provider further
2 comprises:

3 a CIMOM interface provider connected to the proxy CIMOM and the DMI
4 events and CIM requests processing module to receive CIM client application
5 requests and transmit the CIM client application requests to the DMI events and CIM
6 request processing module and receive CIM objects from the DMI events and CIM
7 requests processing module and transmit the CIM objects to the proxy CIMOM.

1 **5.** The system recited in claim 3, wherein the CIM to DMI provider further
2 comprises:

3 a DMI event callback interface module connected to the DMI service provider
4 and the DMI events and CIM requests processing module to receive DMI events and
5 transmit the DMI events to the DMI events and CIM requests processing module.

1 **6.** The system recited in claim 5, wherein the CIM to DMI provider further
2 comprises:

3 a CIMOM event interface connected to the proxy CIMOM and the DMI events
4 and CIM requests processing module to transmit CIM interrupts to the proxy CIMOM
5 translated from the DMI events received by the DMI event callback interface and
6 transmitted by the DMI events and CIM requests processing module using the CIM to
7 DMI translation module.

1 7. The system recited in claim 3, wherein the CIM to DMI provider further
2 comprises:

3 a CIM provider callback interface connected to the proxy CIMOM and the DMI
4 events and CIM requests processing module to receive CIM requests from the
5 plurality of CIM client applications and transmit them to the DMI events and CIM
6 requests processing module and to transmit to the proxy CIM all the translated DMI
7 events received from the DMI events and CIM requests processing module.

1 8. The system recited in claim 7, wherein the CIM to DMI provider further
2 comprises:

3 a DMI management client interface connected to the DMI service provider and
4 the DMI events and CIM requests processing module to receive DMI requests from
5 the DMI service provider and transmit them to the DMI events and CIM request
6 processing module and receive from the DMI events and CIM requests processing
7 module CIM requests translated into DMI format and transmitting the DMI formatted
8 CIM requests to the DMI service provider.

1 **9.** A method of communicating between computers in a CIM network and
2 a DMI network, comprising:
3 instantiating an object request for a class by a CIM client application;
4 transmitting the object request to a proxy CIMOM that relays the object request
5 to a CIM to DMI provider;
6 translating the object request to a DMI request; and
7 transmitting to the DMI request to a DMI component instrumentation via a DMI
8 service provider.

1 **10.** The method recited in claim 9, further comprising:
2 transmitting an event generated by the DMI component instrumentation to the
3 CIM to DMI provider via the DMI service provider;
4 translating the event into a CIM interrupt; and
5 transmitting the CIM interrupt to a CIM client application via a proxy CIMOM.

1 **11.** The method recited in claim 9, further comprising:
2 registering a CIM to DMI provider with a DMI service provider as a DMI
3 management application;
4 receiving a DMI event or CIM request;
5 translating the DMI event into a CIM interrupt or the CIM request into a DMI
6 request; and
7 transmitting the translated CIM interrupt to the CIM client application or the
8 translated DMI request to the DMI component instrumentation.

1 **12.** The method recited in claim 9, wherein translating the object request to
2 a DMI request is done by a CIM to DMI translation module.

1 **13.** A computer program embodied on a computer readable medium
2 executable by a computer, comprising:

3 instantiating an object request for a class by a CIM client application;

4 transmitting the object request to a proxy CIMOM that relays the object request
5 to a CIM to DMI provider;

6 translating the object request to a DMI request; and

7 transmitting the DMI request to a DMI component instrumentation via a DMI
8 service provider.

1 **14.** The computer program recited in claim 13, further comprising:

2 transmitting an event generated by the DMI component instrumentation to the
3 CIM to DMI provider via the DMI service provider;

4 translating the event into a CIM interrupt; and

5 transmitting the CIM interrupt to a CIM client application via a proxy CIMOM.

1 **15.** The computer program recited in claim 13, further comprising:

2 registering a CIM to DMI provider with a DMI service provider as a DMI
3 management application;

4 receiving a DMI event or CIM request;

5 translating the DMI event into a CIM interrupt or the CIM request into a DMI
6 request; and
7 transmitting the translated CIM interrupt to the CIM client application or the
8 translated DMI request to the DMI component instrumentation.

1 **16.** The computer program recited in claim 13, wherein translating the object
2 request to a DMI request is done by a CIM to DMI translation module.

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